

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary-Designate

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey, Division Director
Oil Conservation Division



New Mexico Oil Conservation Division approval and conditions listed below are made in accordance with OCD Rule 19.15.7.11 and are in addition to the actions approved by BLM on the following 3160-4 or 3160-5 form.

Operator Signature Date: 6/4/14

Application Type:

☐ P&A ☒ Drilling/Casing Change ☐ Recomplete/DHC
☒ Location Change ☐ Other:

Well information:

API-WELL #	Well Name	Well #	Operator Name	Type	Stat	County	Surf. Owner	UL	Sec	Twp	N/S	Rng	W/E	Feet	NS	Ft	EW
30-043-21204-00-00	CHACO 2306 19E	205H	WPX ENERGY PRODUCTION, LLC	O	N	Sandoval	F	E	19	23	N	6	W	1801	N	302	W

Conditions of Approval:

Notify NMOCD 24hrs prior to beginning operations

Hold C104 for NSL and NSP

A handwritten signature in black ink, appearing to read "Jami Bailey".

NMOCD Approved by Signature

6/23/14
Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JUN 05 2014

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS
**Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.**

SUBMIT IN TRIPLICATE - Other instructions on page 2.

5. Lease Serial No.
NMSF078360

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.
Chaco 2306-19E #205H

9. API Well No.
30-043-21204

10. Field and Pool or Exploratory Area
Lybrook Gallup

11. Country or Parish, State
Sandoval, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other <u>Realign lateral</u>
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomple horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Due to a mix up in rigging up on the wrong preset surface casing on this location, WPX requests to change the surface location slightly. Attached is a revised C-102 and directional plan. Engineering/cementing will remain essentially the same as on file.

CONDITIONS OF APPROVAL

Adhere to previously issued stipulations

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

14. I hereby certify that the foregoing is true and correct.
Name (Printed/Typed)
Larry Higgins

Title Regulatory Specialist

Signature

Date 6/4/14

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Petroleum

Title Engineer

Date 07/14/2014

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office FFO

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

NMOCDA

District I
1625 N. French Drive, Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First Street, Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Drive, Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to
Appropriate District Office

OIL CONSERVATION DIVISION
1220 South St. Francis Drive
Santa Fe, NM 87505

RECEIVED
AMENDED REPORT

JUN 05 2014

WELL LOCATION AND ACREAGE DEDICATION PLAT

Fannington Field Ohio
Bureau of Land Management

¹ API Number 30-043-21204	² Pool Code 42289	³ Pool Name LYBROOK GALLUP
⁴ Property Code	⁵ Property Name CHACO 2306-19E	⁶ Well Number 205H
⁷ GRID No. 120782	⁸ Operator Name WPX ENERGY PRODUCTION, LLC	⁹ Elevation 6965'

¹⁰ Surface Location

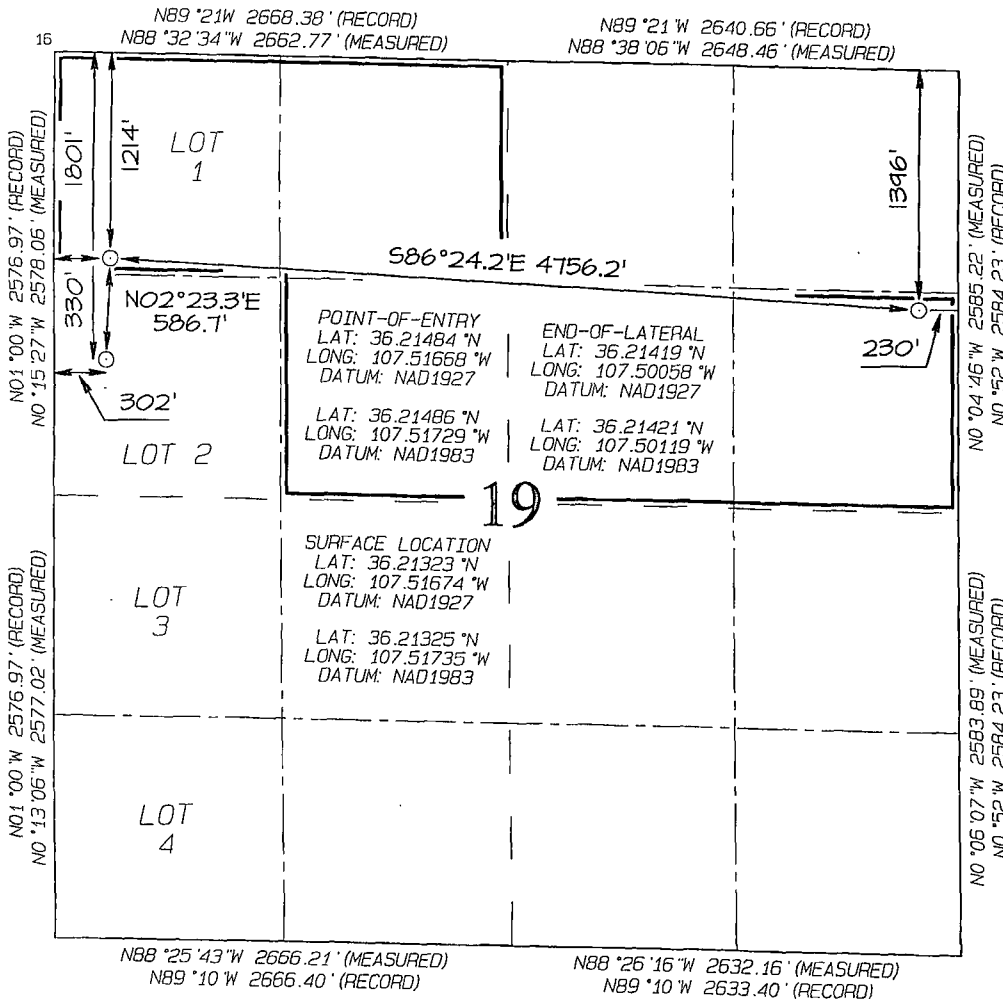
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	19	23N	6W	2	1801	NORTH	302	WEST	SANDOVAL

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	19	23N	6W		1396	NORTH	230	EAST	SANDOVAL

¹² Dedicated Acres 200.86 Acres - Section 19 N/2 NW/4 - S/2 NE/4 - SE/4 NW/4	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE
BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature *Larry Higgins* Date 6/4/14

Printed Name
Larry Higgins
E-mail Address
larry.higgins@wpxenergy.com

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Revised: JUNE 4, 2014
Date of Survey: JULY 10, 2012

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number 15269

Company: WPX Energy Rocky Mountain
 Project: Sandoval County, NM NAD
 Site: Chaco 2306-19E
 Well: Chaco 2306-19E #205H
 Wellbore: OH
 Design: Plan #2

PROJECT DETAILS: Sandoval County, NM NAD27

Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico Central 3002
 System Datum: Mean Sea Level
 Local North: True



Azimuths to True North
 Magnetic North: 9.45°
 Magnetic Field
 Strength: 50082.6snT
 Dip Angle: 63.00°
 Date: 5/28/2014
 Model: BGGM2014

WELL DETAILS: Chaco 2306-19E #205H

GL 6965' & RKB 14' @ 6979.00ft

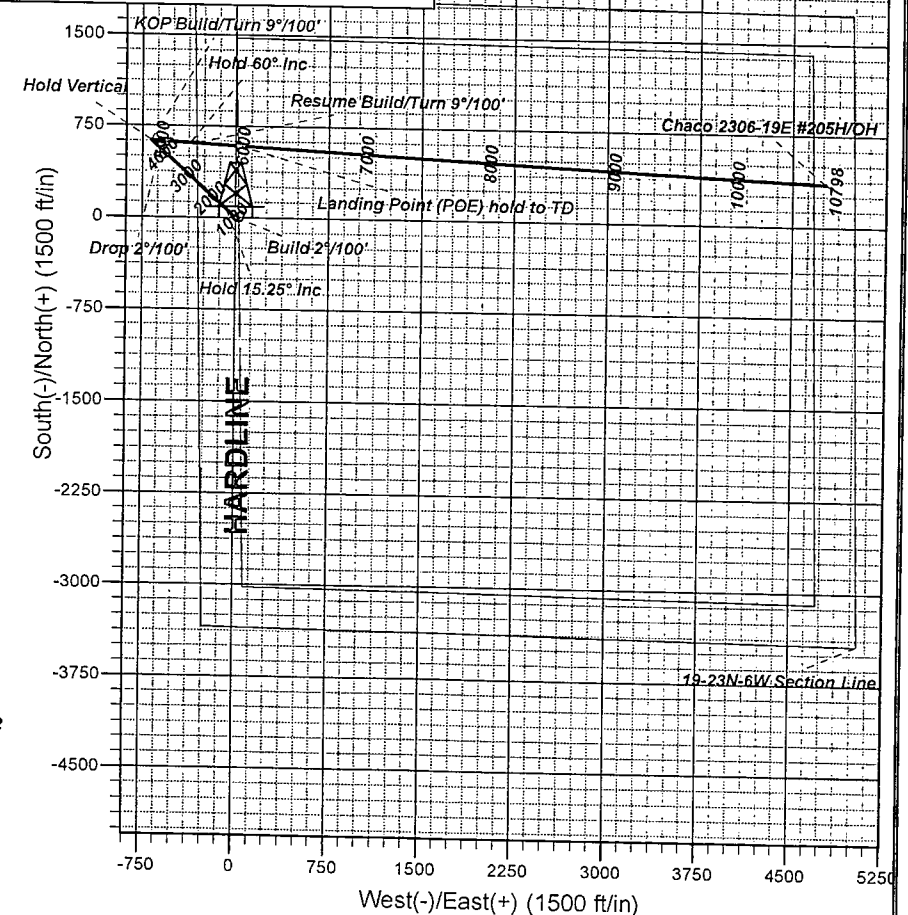
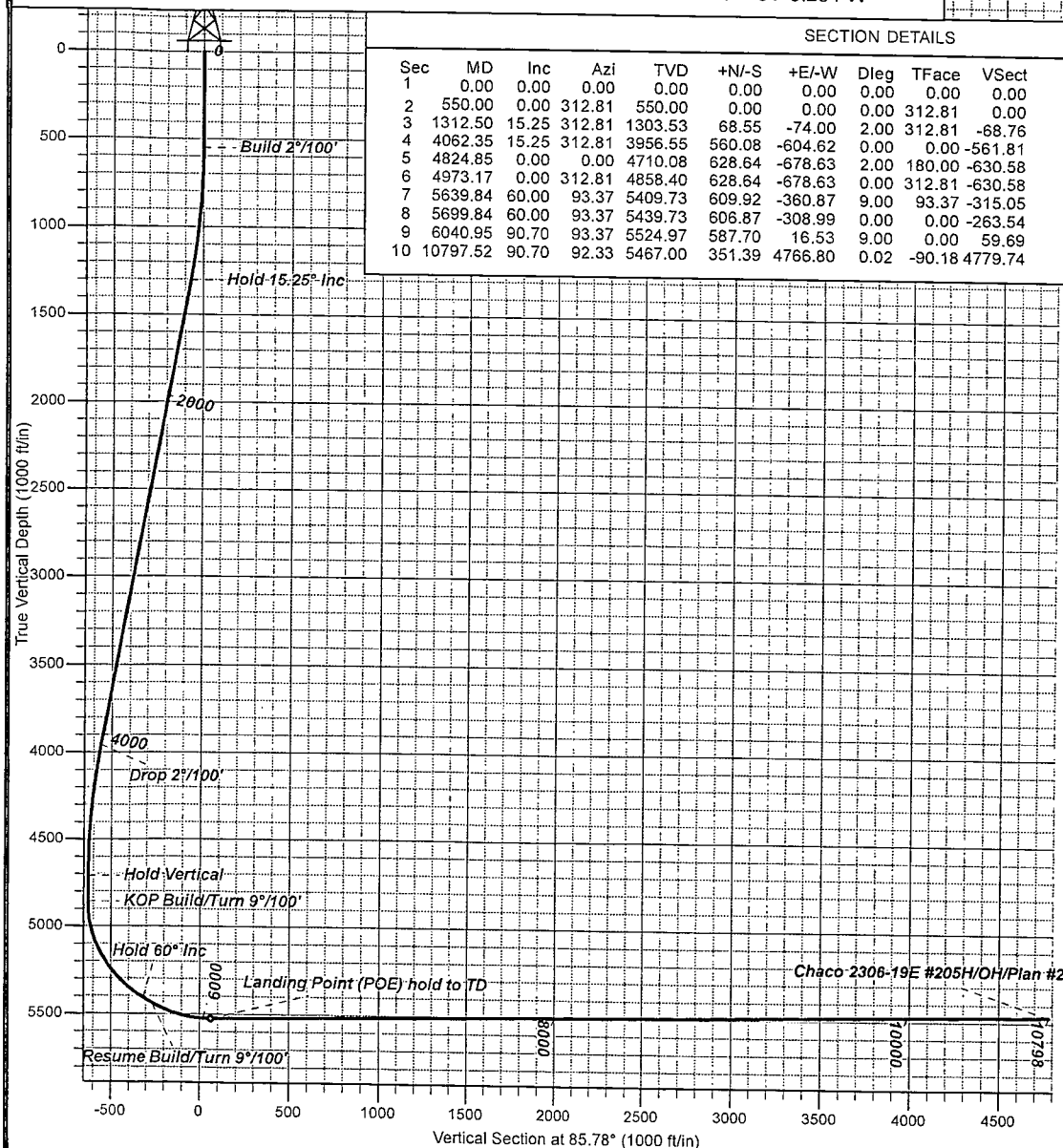
+N/-S +E/-W Northing Easting Latitude Longitude
 0.00 0.00 1899266.26 126313.58 36° 12' 47.628 N 107° 31' 0.264 W

Plan: Plan #2 (Chaco 2306-19E #205H/OH)

Created By: Janie Collins Date: 10:24, May 30 2014

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	550.00	0.00	312.81	550.00	0.00	0.00	0.00	312.81	0.00		Build 2°/100'
3	1312.50	15.25	312.81	1303.53	68.55	-74.00	2.00	312.81	-68.76		Hold 15.25° Inc
4	4062.35	15.25	312.81	3956.55	560.08	-604.62	0.00	0.00	-561.81		Drop 2°/100'
5	4824.85	0.00	0.00	4710.08	628.64	-678.63	2.00	180.00	-630.58		Hold Vertical
6	4973.17	0.00	312.81	4858.40	628.64	-678.63	0.00	312.81	-630.58		KOP Build/Turn 9°/100'
7	5639.84	60.00	93.37	5409.73	609.92	-360.87	9.00	93.37	-315.05		Hold 60° Inc
8	5699.84	60.00	93.37	5439.73	606.87	-308.99	0.00	0.00	-263.54		Resume Build/Turn 9°/100'
9	6040.95	90.70	93.37	5524.97	587.70	16.53	9.00	0.00	59.69		Landing Point (POE) hold to TD
10	10797.52	90.70	92.33	5467.00	351.39	4766.80	0.02	-90.18	4779.74		Chaco #205H PBHL



Database:	Grand Junction District	Local Co-ordinate Reference:	Well Chaco 2306-19E #205H
Company:	WPX Energy Rocky Mountain, LLC	TVD Reference:	GL 6965' & RKB 14' @ 6979.00ft
Project:	Sandoval County, NM NAD27	MD Reference:	GL 6965' & RKB 14' @ 6979.00ft
Site:	Chaco 2306-19E	North Reference:	True
Well:	Chaco 2306-19E #205H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Project	Sandoval County, NM NAD27		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico Central 3002		

Site	Chaco 2306-19E				
Site Position:		Northing:	1,899,266.26 usft	Latitude:	36° 12' 47.628 N
From:	Lat/Long	Easting:	126,313.58 usft	Longitude:	107° 31' 0.264 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	-0.75 °

Well	Chaco 2306-19E #205H					
Well Position	+N/-S	0.00 ft	Northing:	1,899,266.26 usft	Latitude:	36° 12' 47.628 N
	+E/-W	0.00 ft	Easting:	126,313.58 usft	Longitude:	107° 31' 0.264 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	6,965.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	BGGM2014	5/28/2014	(°)	(°)	(nT)
			9.44	63.00	50,093

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	85.78

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
550.00	0.00	312.81	550.00	0.00	0.00	0.00	0.00	0.00	312.81	
1,312.50	15.25	312.81	1,303.53	68.55	-74.00	2.00	2.00	0.00	312.81	
4,062.35	15.25	312.81	3,956.55	560.08	-604.62	0.00	0.00	0.00	0.00	
4,824.85	0.00	0.00	4,710.08	628.64	-678.63	2.00	-2.00	0.00	180.00	
4,973.17	0.00	312.81	4,858.40	628.64	-678.63	0.00	0.00	0.00	312.81	
5,639.84	60.00	93.37	5,409.73	609.92	-360.87	9.00	9.00	0.00	93.37	
5,699.84	60.00	93.37	5,439.73	606.87	-308.99	0.00	0.00	0.00	0.00	
6,040.95	90.70	93.37	5,524.97	587.70	16.53	9.00	9.00	0.00	0.00	
10,797.52	90.70	92.33	5,467.00	351.39	4,766.80	0.02	0.00	-0.02	-90.18	Chaco #205H PBHL

Database:	Grand Junction District	Local Co-ordinate Reference:	Well Chaco 2306-19E #205H
Company:	WPX Energy Rocky Mountain, LLC	TVD Reference:	GL 6965' & RKB 14' @ 6979.00ft
Project:	Sandoval County, NM NAD27	MD Reference:	GL 6965' & RKB 14' @ 6979.00ft
Site:	Chaco 2306-19E	North Reference:	True
Well:	Chaco 2306-19E #205H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	1,899,266.26	126,313.58	36° 12' 47.628 N	107° 31' 0.264 W
100.00	0.00	312.81	100.00	0.00	0.00	1,899,266.26	126,313.58	36° 12' 47.628 N	107° 31' 0.264 W
200.00	0.00	312.81	200.00	0.00	0.00	1,899,266.26	126,313.58	36° 12' 47.628 N	107° 31' 0.264 W
300.00	0.00	312.81	300.00	0.00	0.00	1,899,266.26	126,313.58	36° 12' 47.628 N	107° 31' 0.264 W
400.00	0.00	312.81	400.00	0.00	0.00	1,899,266.26	126,313.58	36° 12' 47.628 N	107° 31' 0.264 W
500.00	0.00	312.81	500.00	0.00	0.00	1,899,266.26	126,313.58	36° 12' 47.628 N	107° 31' 0.264 W
550.00	0.00	312.81	550.00	0.00	0.00	1,899,266.26	126,313.58	36° 12' 47.628 N	107° 31' 0.264 W
Build 2°/100'									
600.00	1.00	312.81	600.00	0.30	-0.32	1,899,266.56	126,313.26	36° 12' 47.631 N	107° 31' 0.268 W
700.00	3.00	312.81	699.93	2.67	-2.88	1,899,268.97	126,310.73	36° 12' 47.654 N	107° 31' 0.299 W
800.00	5.00	312.81	799.68	7.41	-8.00	1,899,273.78	126,305.68	36° 12' 47.701 N	107° 31' 0.362 W
900.00	7.00	312.81	899.13	14.51	-15.67	1,899,280.98	126,298.10	36° 12' 47.771 N	107° 31' 0.455 W
1,000.00	9.00	312.81	998.15	23.97	-25.87	1,899,290.57	126,288.02	36° 12' 47.865 N	107° 31' 0.580 W
1,100.00	11.00	312.81	1,096.63	35.77	-38.61	1,899,302.53	126,275.44	36° 12' 47.982 N	107° 31' 0.735 W
1,200.00	13.00	312.81	1,194.44	49.90	-53.86	1,899,316.86	126,260.37	36° 12' 48.121 N	107° 31' 0.921 W
1,300.00	15.00	312.81	1,291.46	66.34	-71.61	1,899,333.53	126,242.84	36° 12' 48.284 N	107° 31' 1.138 W
1,312.50	15.25	312.81	1,303.53	68.55	-74.00	1,899,335.78	126,240.48	36° 12' 48.306 N	107° 31' 1.167 W
Hold 15.25° Inc									
1,400.00	15.25	312.81	1,387.95	84.19	-90.89	1,899,351.64	126,223.80	36° 12' 48.461 N	107° 31' 1.373 W
1,500.00	15.25	312.81	1,484.43	102.07	-110.18	1,899,369.76	126,204.74	36° 12' 48.637 N	107° 31' 1.608 W
1,600.00	15.25	312.81	1,580.91	119.94	-129.48	1,899,387.89	126,185.67	36° 12' 48.814 N	107° 31' 1.844 W
1,700.00	15.25	312.81	1,677.38	137.82	-148.78	1,899,406.01	126,166.61	36° 12' 48.991 N	107° 31' 2.079 W
1,800.00	15.25	312.81	1,773.86	155.69	-168.07	1,899,424.14	126,147.55	36° 12' 49.168 N	107° 31' 2.315 W
1,900.00	15.25	312.81	1,870.34	173.57	-187.37	1,899,442.26	126,128.49	36° 12' 49.344 N	107° 31' 2.550 W
2,000.00	15.25	312.81	1,966.82	191.44	-206.67	1,899,460.39	126,109.43	36° 12' 49.521 N	107° 31' 2.786 W
2,100.00	15.25	312.81	2,063.30	209.32	-225.96	1,899,478.51	126,090.37	36° 12' 49.698 N	107° 31' 3.021 W
2,200.00	15.25	312.81	2,159.78	227.19	-245.26	1,899,496.64	126,071.31	36° 12' 49.875 N	107° 31' 3.257 W
2,300.00	15.25	312.81	2,256.26	245.07	-264.56	1,899,514.76	126,052.25	36° 12' 50.051 N	107° 31' 3.492 W
2,400.00	15.25	312.81	2,352.74	262.94	-283.85	1,899,532.89	126,033.19	36° 12' 50.228 N	107° 31' 3.728 W
2,500.00	15.25	312.81	2,449.21	280.82	-303.15	1,899,551.02	126,014.13	36° 12' 50.405 N	107° 31' 3.963 W
2,600.00	15.25	312.81	2,545.69	298.69	-322.44	1,899,569.14	125,995.06	36° 12' 50.582 N	107° 31' 4.198 W
2,700.00	15.25	312.81	2,642.17	316.57	-341.74	1,899,587.27	125,976.00	36° 12' 50.758 N	107° 31' 4.434 W
2,800.00	15.25	312.81	2,738.65	334.44	-361.04	1,899,605.39	125,956.94	36° 12' 50.935 N	107° 31' 4.669 W
2,900.00	15.25	312.81	2,835.13	352.32	-380.33	1,899,623.52	125,937.88	36° 12' 51.112 N	107° 31' 4.905 W
3,000.00	15.25	312.81	2,931.61	370.19	-399.63	1,899,641.64	125,918.82	36° 12' 51.289 N	107° 31' 5.140 W
3,100.00	15.25	312.81	3,028.09	388.06	-418.93	1,899,659.77	125,899.76	36° 12' 51.465 N	107° 31' 5.376 W
3,200.00	15.25	312.81	3,124.57	405.94	-438.22	1,899,677.89	125,880.70	36° 12' 51.642 N	107° 31' 5.611 W
3,300.00	15.25	312.81	3,221.04	423.81	-457.52	1,899,696.02	125,861.64	36° 12' 51.819 N	107° 31' 5.847 W
3,400.00	15.25	312.81	3,317.52	441.69	-476.81	1,899,714.14	125,842.58	36° 12' 51.996 N	107° 31' 6.082 W
3,500.00	15.25	312.81	3,414.00	459.56	-496.11	1,899,732.27	125,823.51	36° 12' 52.172 N	107° 31' 6.318 W
3,600.00	15.25	312.81	3,510.48	477.44	-515.41	1,899,750.39	125,804.45	36° 12' 52.349 N	107° 31' 6.553 W
3,700.00	15.25	312.81	3,606.96	495.31	-534.70	1,899,768.52	125,785.39	36° 12' 52.526 N	107° 31' 6.788 W
3,800.00	15.25	312.81	3,703.44	513.19	-554.00	1,899,786.64	125,766.33	36° 12' 52.703 N	107° 31' 7.024 W
3,900.00	15.25	312.81	3,799.92	531.06	-573.30	1,899,804.77	125,747.27	36° 12' 52.879 N	107° 31' 7.259 W
4,000.00	15.25	312.81	3,896.39	548.94	-592.59	1,899,822.90	125,728.21	36° 12' 53.056 N	107° 31' 7.495 W
4,062.35	15.25	312.81	3,956.55	560.08	-604.62	1,899,834.20	125,716.32	36° 12' 53.166 N	107° 31' 7.642 W
Drop 2°/100'									
4,100.00	14.50	312.81	3,992.94	566.65	-611.71	1,899,840.86	125,709.32	36° 12' 53.231 N	107° 31' 7.728 W
4,200.00	12.50	312.81	4,090.17	582.51	-628.83	1,899,856.94	125,692.41	36° 12' 53.388 N	107° 31' 7.937 W
4,300.00	10.50	312.81	4,188.16	596.05	-643.46	1,899,870.67	125,677.97	36° 12' 53.522 N	107° 31' 8.115 W
4,400.00	8.50	312.81	4,286.78	607.27	-655.56	1,899,882.04	125,666.01	36° 12' 53.633 N	107° 31' 8.263 W
4,500.00	6.50	312.81	4,385.92	616.13	-665.13	1,899,891.03	125,656.55	36° 12' 53.720 N	107° 31' 8.380 W
4,600.00	4.50	312.81	4,485.46	622.64	-672.16	1,899,897.63	125,649.61	36° 12' 53.785 N	107° 31' 8.466 W
4,700.00	2.50	312.81	4,585.27	626.79	-676.63	1,899,901.84	125,645.19	36° 12' 53.826 N	107° 31' 8.520 W

Database: Grand Junction District
Company: WPX Energy Rocky Mountain, LLC
Project: Sandoval County, NM NAD27
Site: Chaco 2306-19E
Well: Chaco 2306-19E #205H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well Chaco 2306-19E #205H
TVD Reference: GL 6965' & RKB 14' @ 6979.00ft
MD Reference: GL 6965' & RKB 14' @ 6979.00ft
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,800.00	0.50	312.81	4,685.23	628.56	-678.55	1,899,903.64	125,643.30	36° 12' 53.843 N	107° 31' 8.544 W
4,824.85	0.00	0.00	4,710.08	628.64	-678.63	1,899,903.71	125,643.22	36° 12' 53.844 N	107° 31' 8.545 W
Hold Vertical									
4,900.00	0.00	312.81	4,785.23	628.64	-678.63	1,899,903.71	125,643.22	36° 12' 53.844 N	107° 31' 8.545 W
4,973.17	0.00	312.81	4,858.40	628.64	-678.63	1,899,903.71	125,643.22	36° 12' 53.844 N	107° 31' 8.545 W
KOP Build/Turn 9°/100'									
5,000.00	2.41	93.37	4,885.22	628.60	-678.06	1,899,903.67	125,643.79	36° 12' 53.844 N	107° 31' 8.538 W
5,100.00	11.41	93.37	4,984.39	627.90	-666.06	1,899,902.81	125,655.78	36° 12' 53.837 N	107° 31' 8.391 W
5,200.00	20.41	93.37	5,080.46	626.29	-638.71	1,899,900.84	125,683.10	36° 12' 53.821 N	107° 31' 8.058 W
5,300.00	29.41	93.37	5,171.06	623.81	-596.70	1,899,897.82	125,725.08	36° 12' 53.796 N	107° 31' 7.545 W
5,400.00	38.41	93.37	5,253.96	620.53	-541.06	1,899,893.81	125,780.67	36° 12' 53.764 N	107° 31' 6.866 W
5,500.00	47.41	93.37	5,327.12	616.54	-473.16	1,899,888.93	125,848.52	36° 12' 53.724 N	107° 31' 6.037 W
5,600.00	56.41	93.37	5,388.74	611.91	-394.66	1,899,883.28	125,926.94	36° 12' 53.679 N	107° 31' 5.080 W
5,639.84	60.00	93.37	5,409.73	609.92	-360.86	1,899,880.85	125,960.71	36° 12' 53.659 N	107° 31' 4.667 W
Hold 60° Inc									
5,699.84	60.00	93.37	5,439.73	606.87	-308.99	1,899,877.12	126,012.54	36° 12' 53.629 N	107° 31' 4.034 W
Resume Build/Turn 9°/100'									
5,700.00	60.00	93.37	5,439.81	606.86	-308.85	1,899,877.11	126,012.68	36° 12' 53.629 N	107° 31' 4.033 W
5,800.00	69.01	93.37	5,482.79	601.56	-218.83	1,899,870.63	126,102.62	36° 12' 53.576 N	107° 31' 2.934 W
5,900.00	78.01	93.37	5,511.14	595.93	-123.21	1,899,863.75	126,198.16	36° 12' 53.521 N	107° 31' 1.767 W
6,000.00	87.01	93.37	5,524.16	590.11	-24.33	1,899,856.64	126,296.95	36° 12' 53.463 N	107° 31' 0.561 W
6,038.45	90.47	93.37	5,525.00	587.85	14.03	1,899,853.88	126,335.29	36° 12' 53.441 N	107° 31' 0.093 W
Chaco #205H POE									
6,040.95	90.70	93.37	5,524.97	587.70	16.53	1,899,853.70	126,337.78	36° 12' 53.439 N	107° 31' 0.062 W
Landing Point (POE) hold to TD									
6,100.00	90.70	93.36	5,524.25	584.24	75.47	1,899,849.46	126,396.68	36° 12' 53.405 N	107° 30' 59.343 W
6,200.00	90.70	93.34	5,523.03	578.40	175.30	1,899,842.32	126,496.41	36° 12' 53.347 N	107° 30' 58.125 W
6,300.00	90.70	93.31	5,521.81	572.60	275.12	1,899,835.22	126,596.15	36° 12' 53.290 N	107° 30' 56.907 W
6,400.00	90.70	93.29	5,520.59	566.84	374.95	1,899,828.16	126,695.90	36° 12' 53.233 N	107° 30' 55.689 W
6,500.00	90.70	93.27	5,519.37	561.12	474.77	1,899,821.13	126,795.64	36° 12' 53.177 N	107° 30' 54.471 W
6,600.00	90.70	93.25	5,518.14	555.44	574.61	1,899,814.15	126,895.39	36° 12' 53.120 N	107° 30' 53.253 W
6,700.00	90.70	93.23	5,516.92	549.79	674.44	1,899,807.20	126,995.14	36° 12' 53.064 N	107° 30' 52.034 W
6,800.00	90.70	93.20	5,515.70	544.19	774.27	1,899,800.29	127,094.89	36° 12' 53.009 N	107° 30' 50.816 W
6,900.00	90.70	93.18	5,514.48	538.62	874.11	1,899,793.42	127,194.65	36° 12' 52.954 N	107° 30' 49.598 W
7,000.00	90.70	93.16	5,513.26	533.09	973.95	1,899,786.58	127,294.41	36° 12' 52.899 N	107° 30' 48.380 W
7,100.00	90.70	93.14	5,512.04	527.60	1,073.79	1,899,779.79	127,394.17	36° 12' 52.845 N	107° 30' 47.162 W
7,200.00	90.70	93.12	5,510.82	522.14	1,173.64	1,899,773.03	127,493.93	36° 12' 52.791 N	107° 30' 45.943 W
7,300.00	90.70	93.09	5,509.60	516.73	1,273.48	1,899,766.31	127,593.70	36° 12' 52.737 N	107° 30' 44.725 W
7,400.00	90.70	93.07	5,508.38	511.35	1,373.33	1,899,759.63	127,693.47	36° 12' 52.684 N	107° 30' 43.507 W
7,500.00	90.70	93.05	5,507.16	506.01	1,473.18	1,899,752.98	127,793.24	36° 12' 52.631 N	107° 30' 42.288 W
7,600.00	90.70	93.03	5,505.94	500.71	1,573.03	1,899,746.38	127,893.01	36° 12' 52.579 N	107° 30' 41.070 W
7,700.00	90.70	93.01	5,504.72	495.45	1,672.89	1,899,739.81	127,992.79	36° 12' 52.527 N	107° 30' 39.851 W
7,800.00	90.70	92.98	5,503.50	490.22	1,772.74	1,899,733.29	128,092.57	36° 12' 52.475 N	107° 30' 38.633 W
7,900.00	90.70	92.96	5,502.28	485.04	1,872.60	1,899,726.80	128,192.35	36° 12' 52.424 N	107° 30' 37.415 W
8,000.00	90.70	92.94	5,501.06	479.89	1,972.46	1,899,720.34	128,292.13	36° 12' 52.373 N	107° 30' 36.196 W
8,100.00	90.70	92.92	5,499.84	474.78	2,072.32	1,899,713.93	128,391.92	36° 12' 52.322 N	107° 30' 34.978 W
8,200.00	90.70	92.90	5,498.62	469.71	2,172.19	1,899,707.56	128,491.71	36° 12' 52.272 N	107° 30' 33.759 W
8,300.00	90.70	92.87	5,497.40	464.68	2,272.05	1,899,701.22	128,591.50	36° 12' 52.222 N	107° 30' 32.540 W
8,400.00	90.70	92.85	5,496.19	459.68	2,371.92	1,899,694.92	128,691.30	36° 12' 52.173 N	107° 30' 31.322 W
8,500.00	90.70	92.83	5,494.97	454.73	2,471.79	1,899,688.66	128,791.09	36° 12' 52.123 N	107° 30' 30.103 W
8,600.00	90.70	92.81	5,493.75	449.81	2,571.66	1,899,682.44	128,890.89	36° 12' 52.075 N	107° 30' 28.885 W
8,700.00	90.70	92.79	5,492.53	444.93	2,671.53	1,899,676.25	128,990.69	36° 12' 52.026 N	107° 30' 27.666 W
8,800.00	90.70	92.76	5,491.31	440.09	2,771.41	1,899,670.11	129,090.49	36° 12' 51.978 N	107° 30' 26.447 W
8,900.00	90.70	92.74	5,490.09	435.28	2,871.29	1,899,664.00	129,190.30	36° 12' 51.931 N	107° 30' 25.229 W

Database:	Grand Junction District	Local Co-ordinate Reference:	Well Chaco 2306-19E #205H
Company:	WPX Energy Rocky Mountain, LLC	TVD Reference:	GL 6965' & RKB 14' @ 6979.00ft
Project:	Sandoval County, NM NAD27	MD Reference:	GL 6965' & RKB 14' @ 6979.00ft
Site:	Chaco 2306-19E	North Reference:	True
Well:	Chaco 2306-19E #205H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,000.00	90.70	92.72	5,488.87	430.52	2,971.17	1,899,657.93	129,290.11	36° 12' 51.884 N	107° 30' 24.010 W
9,100.00	90.70	92.70	5,487.66	425.79	3,071.05	1,899,651.90	129,389.92	36° 12' 51.837 N	107° 30' 22.791 W
9,200.00	90.70	92.68	5,486.44	421.10	3,170.93	1,899,645.91	129,489.73	36° 12' 51.790 N	107° 30' 21.572 W
9,300.00	90.70	92.65	5,485.22	416.45	3,270.81	1,899,639.95	129,589.55	36° 12' 51.744 N	107° 30' 20.354 W
9,400.00	90.70	92.63	5,484.00	411.84	3,370.70	1,899,634.03	129,689.36	36° 12' 51.698 N	107° 30' 19.135 W
9,500.00	90.70	92.61	5,482.79	407.27	3,470.59	1,899,628.16	129,789.18	36° 12' 51.653 N	107° 30' 17.916 W
9,600.00	90.70	92.59	5,481.57	402.73	3,570.48	1,899,622.32	129,889.00	36° 12' 51.608 N	107° 30' 16.697 W
9,700.00	90.70	92.57	5,480.35	398.23	3,670.37	1,899,616.51	129,988.83	36° 12' 51.564 N	107° 30' 15.478 W
9,800.00	90.70	92.54	5,479.13	393.78	3,770.26	1,899,610.75	130,088.65	36° 12' 51.519 N	107° 30' 14.259 W
9,900.00	90.70	92.52	5,477.92	389.35	3,870.16	1,899,605.03	130,188.48	36° 12' 51.475 N	107° 30' 13.040 W
10,000.00	90.70	92.50	5,476.70	384.97	3,970.05	1,899,599.34	130,288.31	36° 12' 51.432 N	107° 30' 11.822 W
10,100.00	90.70	92.48	5,475.48	380.63	4,069.95	1,899,593.69	130,388.15	36° 12' 51.389 N	107° 30' 10.603 W
10,200.00	90.70	92.46	5,474.27	376.32	4,169.85	1,899,588.08	130,487.98	36° 12' 51.346 N	107° 30' 9.384 W
10,300.00	90.70	92.44	5,473.05	372.06	4,269.75	1,899,582.51	130,587.82	36° 12' 51.304 N	107° 30' 8.165 W
10,400.00	90.70	92.41	5,471.83	367.83	4,369.66	1,899,576.97	130,687.66	36° 12' 51.262 N	107° 30' 6.946 W
10,500.00	90.70	92.39	5,470.62	363.64	4,469.56	1,899,571.48	130,787.50	36° 12' 51.220 N	107° 30' 5.727 W
10,600.00	90.70	92.37	5,469.40	359.48	4,569.47	1,899,566.02	130,887.34	36° 12' 51.179 N	107° 30' 4.508 W
10,700.00	90.70	92.35	5,468.19	355.37	4,669.37	1,899,560.60	130,987.19	36° 12' 51.138 N	107° 30' 3.288 W
10,797.52	90.70	92.33	5,467.00	351.39	4,766.80	1,899,555.35	131,084.56	36° 12' 51.099 N	107° 30' 2.100 W

Chaco #205H PBHL

Design Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Chaco #205H PBHL - plan hits target center - Point	0.00	0.00	5,467.00	351.39	4,766.80	1,899,555.35	131,084.56	36° 12' 51.099 N	107° 30' 2.100 W
Chaco #205H POE - plan misses target center by 43.46ft at 6038.45ft MD (5525.00 TVD, 587.85 N, 14.03 E) - Point	0.00	0.00	5,525.00	631.23	16.59	1,899,897.22	126,338.41	36° 12' 53.870 N	107° 31' 0.062 W

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
550.00	550.00	0.00	0.00	Build 2°/100'
1,312.50	1,303.53	68.55	-74.00	Hold 15.25° Inc
4,062.35	3,956.55	560.08	-604.62	Drop 2°/100'
4,824.85	4,710.08	628.64	-678.63	Hold Vertical
4,973.17	4,858.40	628.64	-678.63	KOP Build/Turn 9°/100'
5,639.84	5,409.73	609.92	-360.86	Hold 60° Inc
5,699.84	5,439.73	606.87	-308.99	Resume Build/Turn 9°/100'
6,040.95	5,524.97	587.70	16.53	Landing Point (POE) hold to TD